

**FLASH STORAGE SYSTEM WITH WRITE/ERASE
ABORT DETECTION MECHANISM**

ABSTRACT OF THE DISCLOSURE

The present invention presents a non-volatile memory and method for its operation that ensures reliable mechanism for write and erase abort detection in the event of lost of power during non-volatile memory programming and erasing with minimized system performance penalty. During a multi-sector write process, an indication of a successful write in one sector is written into the overhead of the following sector at the same time as the following sector's data content is written. The last sector written will additionally have an indication of its own successful write written into its overhead. For erase, an erase abort flag in the first sector of the block can be marked after a successful erase operation.